# ROCKCASTLE COUNTY REPORT OF ENDANGERED, THREATENED, AND SPECIAL CONCERN PLANTS, ANIMALS, AND NATURAL COMMUNITIES OF KENTUCKY

PRESERVES COMMISSION 801 SCHENKEL LANE FRANKFORT, KY 40601 (502) 573-2886 (phone) (502) 573-2355 (fax)

www.naturepreserves.ky.gov

# Kentucky State Nature Preserves Commission Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

### **STATUS**

KSNPC: Kentucky State Nature Preserves Commission status:

USESA: U.S. Fish and Wildlife Service status:

SOMC = Species of Management Concern

## **RANKS**

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled GU = Unrankable

G2 = Imperiled G#? = Inexact rank (e.g. G2?)
G3 = Vulnerable G#Q = Questionable taxonomy

G4 = Apparently secure G#T# = Infraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G'

G5 = Secure portion of the rank then refers to the entire species)

GH = Historic, possibly extinct GNR = Unranked GX = Presumed extinct GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled SU = Unrankable Migratory species may have separate ranks for different

S2 = Imperiled S#? = Inexact rank (e.g. G2?) population segments (e.g. S1B, S2N, S4M):

S3 = Vulnerable S#Q = Questionable taxonomy S#B = Rank of breeding population
S4 = Apparently secure S#T# = Infraspecific taxa S#N = Rank of non-breeding population
S5 = Secure SNR = Unranked S#M = Rank of transient population

SH = Historic, possibly extirpated SNA = Not applicable

SX = Presumed extirpated

### **COUNT DATA FIELDS**

# OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

- E currently reported from the county
- H reported from the county but not seen for at least 20 years
- F reported from county & cannot be relocated but for which further inventory is needed
- X known to be extirpated from the county
- U reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

Kentucky State Nature Preserves Commission 801 Schenkel Lane Frankfort, KY 40601 phone: (502) 573-2886 fax: (502) 573-2355

email: naturepreserves@ky.gov internet: www.naturepreserves.ky.gov

County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
Habita	at					E	Н	F	Χ	U
Rockcastle Rich,	Vascular Plants moist woods, thickets and w	Agrimonia gryposepala roodland borders.	Tall Hairy Groovebur	Т/	G5 / S1S2	1	0	0	0	0
Rockcastle Sphag	Vascular Plants gnous bogs, fens, savannas	Calopogon tuberosus and wet shores; in KY, dry sandy pine (-oak) woods and s	Grass Pink wamps	E/	G5 / S1	0	1	0	0	0
Rockcastle SWAM	Vascular Plants MPS, WET MEADOWS, SHO	Carex hystericina ORELINES; CALCAREOUS MARSHES (WEAKLEY 1998)	Porcupine Sedge	H /	G5 / SH	0	1	0	0	0
	Vascular Plants , open sandy or rocky soil in limestone slopes.	Castilleja coccinea n meadows and woodland edges; also, fens, barrens, rock	Scarlet Indian Paintbrush outcrops, meadows, wet pastures, and grassy o	E / penings (Weakle	G5 / S1 y 1998); in KY, south-	1	0	0	0	0
Rockcastle ACIDI	Vascular Plants C, ORGANIC-RICH BOGS,	Dryopteris carthusiana SWAMPS, LESS FREQUENTLY IN MOIST ROCKY RAV	Spinulose Wood Fern INES AND RICH FORESTS (WEAKLEY 1998).	S/	G5 / S3	0	1	0	0	0
Rockcastle Cedar	Vascular Plants galde, limestone outcrop, s	Hedeoma hispidum trip mine and other disturbed habitat.	Rough Pennyroyal	Τ/	G5 / S2	1	0	0	0	0
Rockcastle MESI	Vascular Plants C WOODED RAVINES AND	Juglans cinerea ALONG STREAMS	White Walnut	S/SOMC	G3G4 / S3	1	0	0	0	0
Rockcastle Openi	Vascular Plants ings in seasonally moist fore	Lilium philadelphicum sts, prairies and roadsides.	Wood Lily	T/	G5 / S2S3	1	0	0	0	0
Rockcastle Dry to	Vascular Plants moist open ground, open w	Oenothera perennis roods, fields, and meadows.	Small Sundrops	E/	G5 / S1S2	0	0	0	1	0
Rockcastle Calca	Vascular Plants reous rocks and slopes (gen	Paxistima canbyi near the top of cliffs or bluffs), rocky woods in the m	Canby's Mountain-lover ountains, usually above major streams.	T/SOMC	G2 / S2	1	0	0	0	0
Rockcastle Calca	Vascular Plants reous forests and thickets us	Prenanthes crepidinea sually in alluvial areas.	Nodding Rattlesnake-root	Τ/	G4 / S2	1	0	0	0	0
Rockcastle Rivert	Vascular Plants panks and boulder/cobble ba	Spiraea virginiana ars that are periodically flood scoured.	Virginia Spiraea	T/LT	G2 / S2	4	0	0	0	0
Rockcastle SHAL	Vascular Plants LOW QUIET WATERS AND	Vallisneria americana O SHORES.	Eelgrass	S/	G5 / S2S3	1	0	0	0	0
Rockcastle	Vascular Plants	Vitis labrusca	Northern Fox Grape	S/	G5 / S2S3	0	1	0	1	0
		Alasmidonta atropurpurea Idient, high quality streams usually in areas of near zero flo Id mud mixture (Harker et al. 1980, Call and Parmalee 1981	·	E / LE d or boulder subst	G1G2 / S1 trate where it is usually	1	0	0	0	0
1914) severa	. Sometimes found in lakes on all inches to two feet. Buchar	Alasmidonta marginata reams but more typical of smaller streams (Buchanan 1980 connected to rivers. Parmalee (1967) reported the preferrenan (1980) found this species to be common in gravel and Cumberland River than in small streams.	ed habitat to be small streams with good current	sand or gravel bo	ttoms, and depth of	9 ne	3	0	0	0
	<b>5</b> ·	Epioblasma brevidens and rivers with clean-swept rubble, gravel, and sand substra indicated that E. brevidens remains buried in the substrat	· ·	E / LE 4, Bogan and Par	G1 / S1 malee 1983, Ahlstedt 1	0 984	0	0	1	0

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County Taxonomic Group		Scientific name	Common name	Statuses	Ranks	# of Occurrences				
Habita	at					Е	Н	F	Χ	U
Rockcastle Consid	Freshwater Mussels lered a large river species (0	Lampsilis ovata Clench and Van Der Schalie 1944, Parmalee 1967, Stansbe	Pocketbook ry 1976), but occurs in medium-sized streams in	E / n gravel, sand, or	G5 / S1 even mud (Parmalee	0	0	1	1	0
		Layzer 1989). In the Lower Wabash and Ohio Rivers specin	•	•	n sand or gravel.					
		Pegias fabula n cool water. Found in pools and riffles on and sometimes bu n, Stansbery 1976, Starnes and Starnes 1980, Wilson and C		E / LE e rocks (Bogan a	G1 / S1 nd Parmalee 1983,	10	2	0	0	0
Rockcastle	Freshwater Mussels	Pleurobema oviforme	Tennessee Clubshell	E / SOMC	G2G3 / S1	4	3	3	0	0
		and large rivers (e.g., Tennessee and Cumberland Rivers)(0 avel mixtures and occasionally mud in the vicinity of riffles a								
Rockcastle	Freshwater Mussels	Ptychobranchus subtentum	Fluted Kidneyshell	E/C	G2G3 / S1	2	1	1	1	0
1984, E	Bogan and Parmalee 1983).	and rivers where it occupies clean swept rubble, gravel, and Sometimes found buried along sides of boulders and never k riffles 10-25 cm deep in all but the swiftest current.				s				
	Freshwater Mussels _ TO LARGE RIVERS WITH ALEE 1983).	Quadrula cylindrica cylindrica H SAND, GRAVEL, AND COBBLE AND MODERATE TO SV	Rabbitsfoot VIFT CURRENT, SOMETIMES IN DEEP WATE	T / SOMC R (PARMALEE ?	G3T3 / S2 1967, BOGAN AND	0	0	0	1	0
		Toxolasma lividus EAMS (GOODRICH AND VAN DER SCHALIE 1944, PARM. ELATED THAT SAND OR FINE GRAVEL BEDS IN SHALLC	·	,	G2 / S1 E (1967) REPORTED I	6 rs	0	2	1	0
Rockcastle INHAB	Freshwater Mussels ITS SMALL TO MEDIUM-S	Villosa lienosa IZED RIVERS, USUALLY IN SHALLOW WATER ON A SAN	Little Spectaclecase ND/MUD/DETRITUS BOTTOM (PARMALEE 19	S / 67, GORDON AN	G5 / S3S4 ND LAYZER 1989).	0	0	0	1	0
		Villosa trabalis ) MEDIUM-SIZED STREAMS WITH SLOW TO MODERATE 1981, BOGAN AND PARMALEE 1983).	Cumberland Bean ECURRENT, BUT ALSO HISTORICALLY KNO	E / LE WN FROM BARS	G1 / S1 S IN THE MAINSTREAM	22 1	6	10	0	0
Rockcastle SUBTE	Crustaceans ERRANEAN STREAMS ANI	Orconectes australis packardi D POOLS (HOBBS 1989).	Appalachian Cave Crayfish	T/	G4T3 / S2S3	3	3	0	0	0
Rockcastle CAVE	Diplopods OBLIGATE SPECIES.	Pseudotremia unca	A Cave Obligate Milliped	T/	G1 / S1S2	0	1	0	0	0
Rockcastle STREA	Insects AMS IN THE OZARK MOUN	Dannella provonshai ITAINS AND APPALACHINA PLATEAU (RANDOLPH AND	An Ephemerellid Mayfly MCCAFFERTY 1998).	H /	G3G4 / SH	0	1	0	0	0
Rockcastle SAND	Insects AND GRAVEL IN SWIFTLY	Ophiogomphus howei FLOWING, UNPOLLUTED AND UNDAMMED RIVERS (C	Pygmy Snaketail ARLE 1987, COOK 1992).	T/SOMC	G3 / S1S2	2	0	0	0	0
Rockcastle CLEAR	Insects R, MODERATELY RAPID R	Ophiogomphus mainensis OCKY STREAMS AND RIVERS IN FOREST, OFTEN WHE	Maine Snaketail RE THEY DRAIN LAKES OR SWAMPS (DUNK	E / (LE 2000).	G4 / S1	0	2	0	0	0
Rockcastle CLEAR	Insects R FOREST STREAMS AND	Stylurus scudderi SMALL RIVERS WITH RIFFLES, A SLOW TO RAPID CUF	Zebra Clubtail RRENT, AND A SAND/MUCK BOTTOM (DUNK	E / LE 2000).	G4 / S1	0	0	0	0	1
		Etheostoma cinereum  oderate current, usually associated with cover (e.g., boulders and Etnier 1980). Most often found in pools or eddies near sh		S / SOMC Comiskey and Et	G2G3 / S3 tnier 1972, Saylor 1980,	20	1	0	0	0
		Ichthyomyzon greeleyi IUM-SIZE STREAMS WITH HIGH GRADIENT AND MIXED SE STREAMS IN SAND, MUD, AND ORGANIC DEBRIS.	Mountain Brook Lamprey SAND AND GRAVEL BOTTOMS (BURR AND	T / WARREN 1986)	G3G4 / S2 . AMMOCOETES LIVE	1 IN	0	0	0	0

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky Kentucky State Nature Preserves Commission

County	<b>Taxonomic Group</b>	Scientific name	Common name	Statuses	Ranks		# of	Оссі	ırren	ices
Habi	tat					Е	Н	F	X	U
	•	Percina squamata with high gradient chutes and deep riffles compoto rivers (Kuehne and Barbour 1983, Page 1983,	Olive Darter osed of cobble and boulders (Burr and Warren 1986, Burr and Warren 1986).	E / SOMC Etnier and Starnes 19	G3 / S1 93). Occasionally in t	2 he	0	0	0	0
	Fishes BITS MEDIUM-SIZE STREA REN 1986).	Phenacobius uranops  MS TO SMALL RIVERS WITH HIGH GRADIEN	Stargazing Minnow  T, PERMANENT FLOW, CLEAR WATER, AND PEB	S / BLE AND GRAVEL SI	G4 / S2S3 JBSTRATES (BURR	0 AND	1	0	0	0
cleard	cuts, highway and powerline	rights-of-way (Hulse et al. 2001), rocky bluffs abo	Coal Skink loose rocks; often the lizard occurs in the vicinity of some creek valleys, dry, rocky, south-facing hillsides (Jy take refuge in water. One nest was under a piece of	ohnson 2000), and dry	•		0	0	0	0
			Henslow's Sparrow JBBY VEG., ESPEC. IN DAMP OR LOW-LYING ARE INE WOODS OR SECOND-GROWTH WOODS.	S / SOMC EAS, ADJACENT TO S	G4 / S3B SALT MARSH IN SOI	1 ME	0	0	0	0
	Mammals esque's big-eared bats use a ngs, etc. Apparently less frec	,	Rafinesque's Big-eared Bat ected sites along clifflines, old mine portals, abandor	S / SOMC ned tunnels, cisterns, c	G3G4 / S3 old or seldom used	9	0	0	0	0
			Virginia Big-eared Bat EEN SELDOM REPORTED ANYWHERE BUT IN A ( IALLY FOR SUMMER ROOSTING AND MATERNIT		G4T2 / S1 WILL USE SMALL	3	0	0	0	0
Rockcastle Indian	Mammals na bats use primarily caves for	Myotis sodalis or hibernacula, although they are occasionally for	Indiana Bat und in old mine portals.	E/LE	G2 / S1S2	11	1	0	1	0
Rockcastle	Communities	Calcareous mesophytic forest		1	GNR / S5	1	0	0	0	0
Rockcastle	Communities	Cumberland plateau gravel/cobble bar		1	GNR / S2	1	0	0	0	0

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